

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

20 MAR 2005

Applicant's or agent's file reference 50557-12	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 03/30304	International filing date (day/month/year) 23/09/2003	(Earliest) Priority Date (day/month/year) 23/09/2002
Applicant JOHN I. HAAS, INC.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☐ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

INTERNATIONAL SEARCH REPORT

International Application No

PO 03/30304

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A23K1/16 A23K1/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A23K A23L A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, WPI Data, FSTA, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN vol. 013, no. 447 (C-642), 6 October 1989 (1989-10-06) -& JP 01 172341 A (NISSHIN FLOUR MILLING CO LTD), 7 July 1989 (1989-07-07) abstract	1-14
X	PATENT ABSTRACTS OF JAPAN vol. 013, no. 447 (C-642), 6 October 1989 (1989-10-06) -& JP 01 172340 A (NISSHIN FLOUR MILLING CO LTD), 7 July 1989 (1989-07-07) abstract	1-14

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

28 January 2004

Date of mailing of the international search report

12/02/2004

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/US 03/30304

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	BEUCHAT L R ET AL: "ANTIMICROBIALS OCCURRING NATURALLY IN FOODS" FOOD TECHNOLOGY, INSTITUTE OF FOOD TECHNOLOGISTS. CHICAGO, US, vol. 43, no. 1, 1989, pages 134-142, XP000025938 ISSN: 0015-6639 page 138, column 1, last paragraph -column 2, paragraph 1 ---	1-14
X	WO 01 76614 A (LI TUO PING ;OHNOGI HIROMU (JP); KATO IKUNOSHIN (JP); KOBAYASHI EI) 18 October 2001 (2001-10-18) paragraphs '0054!', '0056!', '0063!', '0118!', '0142!'-'0145!', '0152!'-'0154!', '0156!; claim 16 P,X -& EP 1 277 473 A (TAKARA BIO INC) 22 January 2003 (2003-01-22) paragraphs '0054!', '0056!', '0063!', '0118!', '0142!'-'0145!', '0152!'-'0154!', '0156!; claim 16 ---	1-5, 13, 14
X	DATABASE WPI Section Ch, Week 199743 Derwent Publications Ltd., London, GB; Class D13, AN 1997-468881 XP002268355 -& RU 2 075 298 C (FOMICHEV V F), 20 March 1997 (1997-03-20) abstract ---	1-5, 13, 14
X	GB 120 166 A (EDWARD MAKIN) 1918 example 1 -----	1-5, 13, 14

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

P 03/30304

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
JP 01172341	A	07-07-1989	JP	2599161 B2	09-04-1997
JP 01172340	A	07-07-1989	JP	2599160 B2	09-04-1997
WO 0176614	A	18-10-2001	AU	4687601 A	23-10-2001
			CN	1422159 T	04-06-2003
			EP	1277473 A1	22-01-2003
			WO	0176614 A1	18-10-2001
			US	2004002423 A1	01-01-2004
RU 2075298	C	20-03-1997	RU	2075298 C1	20-03-1997
GB 120166	A		NONE		